



SEQUENCE LISTING

<110> Glimcher, Laurie H.
Szabo, Susanne, J.

<120> T-BET COMPOSITIONS AND METHODS OF USE THEREOF

<130> HUI-040CP

<140> US 10/008264

<141> 2001-12-03

<150> PCT/US00/15345

<151> 2000-06-01

<150> US 60/137085

<151> 1999-06-02

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<170> PatentIn Ver. 2.0

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<213> Homo sapiens

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<221> CDS

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Pro Met Pro Gly Ser Asp Glu Gly Arg Ala Pro Gly Ala Asp Pro Gln	
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cac cgc tac ttc tac ccg gag ccg ggc gcg cag gac gcg gac gag cgt	144
His Arg Tyr Phe Tyr Pro Glu Pro Gly Ala Gln Asp Ala Asp Glu Arg	
35 40 45	
cgc ggg ggc ggc agc ctg ggg tct ccc tac ccg ggg ggc gcc ttg gtg	192
Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val	
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ccc gcc ccg ccg agc cgc ttc ctt gga gcc tac gcc tac ccg ccg cga	240
Pro Ala Pro Pro Ser Arg Phe Leu Gly Ala Tyr Ala Tyr Pro Pro Arg	
65 70 75 80	
ccc cag gcg gcc ggc ttc ccc ggc gcg ggc gag tcc ttc ccg ccg ccc	288
Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro	
85 90 95	
gcg gac gcc gag ggc tac cag ccg ggc gag ggc tac gcc gcc ccg gac	336
Ala Asp Ala Glu Gly Tyr Gln Pro Gly Glu Gly Tyr Ala Ala Pro Asp	
100 105 110	

ccg cgc gcc ggg ctc tac ccg ggg ccg cgt gag gac tac gcg cta ccc Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro 115 120 125	384
gcg gga ctg gag gtg tcg ggg aaa ctg agg gtc gcg ctc aac aac cac Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His 130 135 140	432
ctg ttg tgg tcc aag ttt aat cag cac cag aca gag atg atc atc acc Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr 145 150 155 160	480
aag cag gga cgg cgg atg ttc cca ttc ctg tca ttt act gtg gcc ggg Lys Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly 165 170 175	528
ctg gag ccc acc agc cac tac agg atg ttt gtg gac gtg gtc ttg gtg Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val 180 185 190	576
gac cag cac cac tgg cgg tac cag agc ggc aag tgg gtg cag tgt gga Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly 195 200 205	624
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atg att gtg ctc cag tcc ctc cat aag tac cag ccc cgg ctg cat atc Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile 260 265 270	816
gtt gag gtg aac gac gga gag cca gag gca gcc tgc aac gct tcc aac Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn 275 280 285	864
acg cat atc ttt act ttc caa gaa acc cag ttc att gcc gtg act gcc Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala 290 295 300	912
tac cag aat gcc gag att act cag ctg aaa att gat aat aac ccc ttt Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe 305 310 315 320	960
gcc aaa gga ttc cgg gag aac ttt gag tcc atg tac aca tct gtt gac Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp 325 330 335	1008
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gat cac tac tct cct ctc cta ccc aac cag tat cct gtt ccc agc cgc 1104
Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg
355 360 365

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Phe Tyr Pro Asp Leu Pro Gly Gln Ala Lys Asp Val Val Pro Gln Ala
370 375 380

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Tyr Trp Leu Gly Ala Pro Arg Asp His Ser Tyr Glu Ala Glu Phe Arg
385 390 395 400

gca gtc agc atg aag cct gca ttc ttg ccc tct gcc cct ggg ccc acc 1248
Ala Val Ser Met Lys Pro Ala Phe Leu Pro Ser Ala Pro Gly Pro Thr
405 410 415

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Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp
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cct gtg gca ccc cag tac cct ccc aag atg ggc ccg gcc agc tgg ttc 1344
Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe
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cgc cct atg cgg act ctg ccc atg gaa ccc ggc cct gga ggc tca gag 1392
Arg Pro Met Arg Thr Leu Pro Met Glu Pro Gly Pro Gly Gly Ser Glu
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gga cgg gga cca gag gac cag ggt ccc ccc ttg gtg tgg act gag att 1440
Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile
465 470 475 480

gcc ccc atc cgg ccg gaa tcc agt gat tca gga ctg ggc gaa gga gac 1488
Ala Pro Ile Arg Pro Glu Ser Ser Asp Ser Gly Leu Gly Glu Gly Asp
485 490 495

tct aag agg agg cgc gtg tcc ccc tat cct tcc agt ggt gac agc tcc 1536
Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser
500 505 510

tcc cct gct ggg gcc cct tct cct ttt gat aag gaa gct gaa gga cag 1584
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 35 40 45
 Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val
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 Pro Ala Pro Pro Ser Arg Phe Leu Gly Ala Tyr Ala Tyr Pro Pro Arg
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 Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro
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 Ala Asp Ala Glu Gly Tyr Gln Pro Gly Glu Gly Tyr Ala Ala Pro Asp
 100 105 110
 Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro
 115 120 125
 Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His
 130 135 140
 Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr
 145 150 155 160
 Lys Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly
 165 170 175
 Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val
 180 185 190
 Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly
 195 200 205
 Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp
 210 215 220
 Ser Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly
 225 230 235 240
 Lys Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln
 245 250 255
 Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile
 260 265 270
 Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn
 275 280 285
 Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala
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 Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe
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 Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp
 325 330 335
 Thr Ser Ile Pro Ser Pro Pro Gly Pro Asn Cys Gln Phe Leu Gly Gly
 340 345 350

Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg
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 Phe Tyr Pro Asp Leu Pro Gly Gln Ala Lys Asp Val Val Pro Gln Ala
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 385 390 395 400
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 Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp
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 Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe
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 Arg Pro Met Arg Thr Leu Pro Met Glu Pro Gly Pro Gly Gly Ser Glu
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 Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile
 465 470 475 480
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 Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser
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 Pro Met Pro Ser Asp Glu Gly Arg Gly Pro Gly Ala Asp Gln Gln His
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 Arg Phe Phe Tyr Pro Glu Pro Gly Ala Gln Asp Pro Thr Asp Arg Arg
 35 40 45

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gag ccc aca agc cat tac agg atg ttt gtg gat gtg gtc ttg gtg gac Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val Asp 180 185 190	576
cag cac cac tgg cgg tac cag agc ggc aag tgg gtg cag tgt gga aag Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly Lys 195 200 205	624
gca gaa ggc agc atg cca ggg aac cgc tta tat gtc cac cca gac tcc Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp Ser 210 215 220	672
ccc aac acc gga gcc cac tgg atg cgc cag gaa gtt tca ttt ggg aag Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly Lys 225 230 235 240	720
cta aag ctc acc aac aac aag ggg gct tcc aac aat gtg acc cag atg Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln Met 245 250 255	768
atc gtc ctg cag tct ctc cac aag tac cag ccc cgg ctg cac atc gtg Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile Val 260 265 270	816
gag gtg aat gat gga gag cca gag gct gcc tgc agt gct tct aac aca Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Ser Ala Ser Asn Thr 275 280 285	864

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His Val Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala Tyr	
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cag aac gca gag atc act cag ctg aaa atc gac aac aac ccc ttt gcc	960
Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe Ala	
305 310 315 320	
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Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Ala Ser Val Asp Thr	
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Ser Val Pro Ser Pro Pro Gly Pro Asn Cys Gln Leu Leu Gly Gly Asp	
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ccc ttc tca cct ctt cta tcc aac cag tat cct gtt ccc agc cgt ttc	1104
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tac ccc gac ctt cca ggc cag ccc aag gat atg atc tca cag cct tac	1152
Tyr Pro Asp Leu Pro Gly Gln Pro Lys Asp Met Ile Ser Gln Pro Tyr	
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Trp Leu Gly Thr Pro Arg Glu His Ser Tyr Glu Ala Glu Phe Arg Ala	
385 390 395 400	
gtg agc atg aag ccc aca ctc cta ccc tct gcc ccg ggg ccc act gtg	1248
Val Ser Met Lys Pro Thr Leu Leu Pro Ser Ala Pro Gly Pro Thr Val	
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ccc tac tac cgg ggc caa gac gtc ctg gcg cct gga gct ggt tgg ccc	1296
Pro Tyr Tyr Arg Gly Gln Asp Val Leu Ala Pro Gly Ala Gly Trp Pro	
420 425 430	
gtg gcc cct caa tac ccg ccc aag atg agc cca gct ggc tgg ttc cgg	1344
Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg	
435 440 445	
ccc atg cga act ctg ccc atg gac ccg ggc ctg gga tcc tca gag gaa	1392
Pro Met Arg Thr Leu Pro Met Asp Pro Gly Leu Gly Ser Ser Glu Glu	
450 455 460	
cag ggc tcc tcc ccc tcg ctg tgg cct gag gtc acc tcc ctc cag ccg	1440
Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro	
465 470 475 480	
gag ccc agc gac tca gga cta ggc gaa gga gac act aag agg agg agg	1488
Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg	
485 490 495	
ata tcc ccc tat cct tcc agt ggc gac agc tcc tct ccc gct ggg gcc	1536
Ile Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser Ser Pro Ala Gly Ala	
500 505 510	
cct tct cct ttt gat aag gaa acc gaa ggc cag ttt tat aat tat ttt	1584
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Pro Asn
530

1593

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Arg	Phe	Phe	Tyr	Pro	Glu	Pro	Gly	Ala	Gln	Asp	Pro	Thr	Asp	Arg	Arg	35	40	45	
Ala	Gly	Ser	Ser	Leu	Gly	Thr	Pro	Tyr	Ser	Gly	Gly	Ala	Leu	Val	Pro	50	55	60	
Ala	Ala	Pro	Gly	Arg	Phe	Leu	Gly	Ser	Phe	Ala	Tyr	Pro	Pro	Arg	Ala	65	70	75	80
Gln	Val	Ala	Gly	Phe	Pro	Gly	Pro	Gly	Glu	Phe	Phe	Pro	Pro	Pro	Ala	85	90	95	
Gly	Ala	Glu	Gly	Tyr	Pro	Pro	Val	Asp	Gly	Tyr	Pro	Ala	Pro	Asp	Pro	100	105	110	
Arg	Ala	Gly	Leu	Tyr	Pro	Gly	Pro	Arg	Glu	Asp	Tyr	Ala	Leu	Pro	Ala	115	120	125	
Gly	Leu	Glu	Val	Ser	Gly	Lys	Leu	Arg	Val	Ala	Leu	Ser	Asn	His	Leu	130	135	140	
Leu	Trp	Ser	Lys	Phe	Asn	Gln	His	Gln	Thr	Glu	Met	Ile	Ile	Thr	Lys	145	150	155	160
Gln	Gly	Arg	Arg	Met	Phe	Pro	Phe	Leu	Ser	Phe	Thr	Val	Ala	Gly	Leu	165	170	175	
Glu	Pro	Thr	Ser	His	Tyr	Arg	Met	Phe	Val	Asp	Val	Val	Leu	Val	Asp	180	185	190	
Gln	His	His	Trp	Arg	Tyr	Gln	Ser	Gly	Lys	Trp	Val	Gln	Cys	Gly	Lys	195	200	205	
Ala	Glu	Gly	Ser	Met	Pro	Gly	Asn	Arg	Leu	Tyr	Val	His	Pro	Asp	Ser	210	215	220	
Pro	Asn	Thr	Gly	Ala	His	Trp	Met	Arg	Gln	Glu	Val	Ser	Phe	Gly	Lys	225	230	235	240
Leu	Lys	Leu	Thr	Asn	Asn	Lys	Gly	Ala	Ser	Asn	Asn	Val	Thr	Gln	Met	245	250	255	
Ile	Val	Leu	Gln	Ser	Leu	His	Lys	Tyr	Gln	Pro	Arg	Leu	His	Ile	Val	260	265	270	

Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Ser Ala Ser Asn Thr
 275 280 285
 His Val Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala Tyr
 290 295 300
 Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe Ala
 305 310 315 320
 Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Ala Ser Val Asp Thr
 325 330 335
 Ser Val Pro Ser Pro Pro Gly Pro Asn Cys Gln Leu Leu Gly Gly Asp
 340 345 350
 Pro Phe Ser Pro Leu Leu Ser Asn Gln Tyr Pro Val Pro Ser Arg Phe
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 Tyr Pro Asp Leu Pro Gly Gln Pro Lys Asp Met Ile Ser Gln Pro Tyr
 370 375 380
 Trp Leu Gly Thr Pro Arg Glu His Ser Tyr Glu Ala Glu Phe Arg Ala
 385 390 395 400
 Val Ser Met Lys Pro Thr Leu Leu Pro Ser Ala Pro Gly Pro Thr Val
 405 410 415
 Pro Tyr Tyr Arg Gly Gln Asp Val Leu Ala Pro Gly Ala Gly Trp Pro
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 Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg
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 Pro Met Arg Thr Leu Pro Met Asp Pro Gly Leu Gly Ser Ser Glu Glu
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 Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro
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 485 490 495
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